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RAW SEQUENCE LISTING DATE: 03/30/2001 PATENT APPLICATION: US/09/803,589 TIME: 12:29:59

Input Set : A:\07334-325001.TXT

Output Set: N:\CRF3\03302001\I803589.raw

4 <110> APPLICANT: McCarthy, Sean A. Holtzman, Douglas A. Goodearl, Andrew D.J. <120> TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC AND OTHER 10 USES 12 <130> FILE REFERENCE: 07334-325001 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/803,589 ENTERED C--> 14 <141> CURRENT FILING DATE: 2001-03-09 14 <150> PRIOR APPLICATION NUMBER: US 09/128,709 15 <151> PRIOR FILING DATE: 1998-08-04 17 <150> PRIOR APPLICATION NUMBER: US 60/054,645 18 <151> PRIOR FILING DATE: 1997-08-04 20 <150> PRIOR APPLICATION NUMBER: US 09/130,491 21 <151> PRIOR FILING DATE: 1998-08-06 23 <150> PRIOR APPLICATION NUMBER: US 60/054,966 24 <151> PRIOR FILING DATE: 1997-08-06 26 <150> PRIOR APPLICATION NUMBER: US 60/058,108 27 <151> PRIOR FILING DATE: 1997-09-05 29 <150> PRIOR APPLICATION NUMBER: US 09/388,280 30 <151> PRIOR FILING DATE: 1999-09-01 32 <150> PRIOR APPLICATION NUMBER: US 09/388,279 33 <151> PRIOR FILING DATE: 1999-09-01 35 <160> NUMBER OF SEQ ID NOS: 14 37 <170> SOFTWARE: FastSEQ for Windows Version 4.0 39 <210> SEQ ID NO: 1 40 <211> LENGTH: 3147 41 <212> TYPE: DNA 42 <213> ORGANISM: Homo sapiens 44 <220> FEATURE: 45 <221> NAME/KEY: CDS 46 <222> LOCATION: (3)...(1826) 48 <400> SEQUENCE: 1 49 cc acg cgt ccg atc ttg gtc atc cac gat gaa cag aag ggg ccg gaa 47 50 Thr Arg Pro Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu 10 53 gtg acc tcc aat gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag 95 54 Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln 20 25 57 aag cag cac aac cca ccc agt gac cgg gat gca gag cac tat gac aca 143 58 Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr 35 40 61 gca att ett tte ace aga eag gae ttg tgt ggg tee eag aca tgt gat 191 62 Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp 50 55 65 act ctt ggg atg gct gat gtt gga act gtg tgt gat ccg agc aga agc 239 66 Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser

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6	57		65		ا سبخ	• .		70					75						
6	59	tgc	tcc	gtc	ata	gaa	gat	gat	ggt	tta	caa	gct	gcc	ttc	acc	aca	gcc	287	
7	70	Cys	Ser	Val.	Jle	Glu	Āsp	Asp	Gly	Leu	Gln	Ala	Āla	Phe	Thr	Thr	Ala		
7	71	80					85					90					95		
7	73	cat	gaa	tta	ggc	cac	gtg	ttt	aac	atg	cca	cat	gat	gat	gca	aag	cag	335	
7	74	His	Glu	Leu	Gly	His	Val	Phe	Asn	Met	Pro	His	Asp	Asp	Ala	Lys	Gln		
7	75		٠.			100					105					110			
7	77	tgt	gcc	agc	ctt	aat	ggt	gtg	aac	cag	gat	tcc	cac	atg	atg	gcg	tca	383	
7	78	Cys	Ala	Ser	Leu	Asn	Gly	Val	Asn	Gln	Asp	Ser	His	Met	Met	Ala	Ser		
7	79			•	115					120					125				
8	31	atg	ctt'	tcc	aac	ctg	gac	cac	agc	cag	cct	tgg	tct	cct	tgc	agt	gcc	431	
8	32	Met	Leu	Ser	Asn	Leu	Asp	His	Ser	Gln	Pro	Trp	Ser	Pro	Cys	Ser	Ala		
8	33			130					135					140					
8	35	tac	atg	att	aca	tca	ttt	ctg	gat	aat	ggt	cat	ggg	gaa	tgt	ttg	atg	479	
																Leu			
	37		145					150	_		_		155		-				
8	39	gac	aag	cct	cag	aat	ccc	ata	cag.	ctc	cca	ggc	gat	ctc	cct	ggc	acc	527	
																Gly			
9	1	160	_				165					170	=			_	175		
9	3	tcg	tac	gat	qcc	aac	cqq	cag	tgc	cag	ttt	aca	ttt	ggg	gag	gac	tcc	575	
																Asp			
. 0	95		-	-		180		.	-		185			-		190			
9	97	aaa	cac	tgc	ccc	gat			agc	aca	tgt	aqc	acc	ttq	tgg	tgt	acc	623	
				_		-	-	-			_	-		_		Cys			
	9	-		•	195	-				200	-				205	•			
1	101	ggc	acc	tct	ggt	ggg	gto	ctg	gto	ı tgt	caa	acc	aaa	cac	tto	ccg	tgg	671	
								_		_						_	Trp		
1	103	_		-210) _	_			215	; <u> </u>			_	220)		-		
1	105	gcg	gat	ggc	acc	ago	tgt:	gga	gaa	ı ggg	aaa	ιtgg	ı tgt	ato	aac	ggc	aag	719	J
1	106	Ala	Asp	Gly	Thr	Ser	Cys	Gly	Glu	ıGly	Lys	Trp	Cys	s Ile	a Asr	Gly	Lys		
1	107		225	;	1.		_	230			_	_	235	5		_	_		
1	L09	tgt	gtg	aac	aaa	acc	gac	aga	aac	cat	ttt	gat	acc	g cct	ttt	: cat	gga	767	
1	10	Cys	Val	Asr	Lys	Thr	Asp	Arg	Lys	His	Phe	Asp	Thr	: Pro	Phe	e His	Gly		
1	11	240					245	5				250)				255		
1	L 1 3	ago	tgg	gga	atg	ı tgg	ggg	cct	tgg	g gga	gac	: tgt	teg	g aga	ace	, tgc	ggt	815	,
1	14	Ser	Trp	Gly	Met	Trp	Gly	Pro	Trp	Gly	Asp	Cys	Ser	Arg	Thi	Cys	Gly		
1	15					260	1				265	;				270	1		
1	17	gga	gga	gto	cag	tac	acq	atg	ago	g gaa	tgt	gac	aac	cca	gto	c cca	aag	863	;
1	18	Gly	Gly	'Val	. Gln	Tyr	Thr	Met	Arg	g Glu	Cys	Asp	Asr	Pro	Va]	l Pro	Lys		
1	19				275	;				280)	-			285	5			
1	121	aat	gga	ggg	, aag	tac	tgt	gaa:	ggc	aaa	cga	gtg	cgc	tac	aga	a tcc	: tgt	911	
1	122	Asn	Gly	Gly	Lys	Tyr	- Cys	Glu	Gly	Lys	Arc	, Val	Arc	ј Туг	Ar	g Ser	Cys		
1	L23		_	290)	_	-		295	5	-		-	300)		-		
1	.25	aac	ctt	gag	gac	: tgt	cca	gac	aat	aat	gga	aaa	acc	ttt	aga	a gag	gaa	959)
1	L 26	Asn	Leu	ı Glü	ı Asp	Cys	Pro) Asp	Asr	Asn	Gly	Lys	Thi	: Phe	e Arc	g Glu	Glu		
1	L 27		305	5				310					315	5					
1	L 2 9	caa	tgt	ga a	gca	cac	aac	gag	ttt	: tca	aaa	gct	tec	ttt	ggg	g agt	ggg	1007	
1	130	Gln	Cys	Glu	ı Ala	His	Asn	Glu	Phe	e Ser	Lys	: Ala	Sei	c Phe	e Gly	Ser	Gly		
1	L31	320					325	5				330)				335		

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	cct																105	5
	Pro	Ala	Val	Glu	_	Ile	Pro	Lys	Tyr		Gly	Val	Ser	Pro	_	Asp		
135					340					345					350			_
	agg																110	3
	Arg				Ile	Cys	GIn	Ala		Gly	Ile	Gly	Tyr		Phe	Val		
139									360					365				_
	ttg																115	1
	Leu	GIN		гĀг			Asp	_	Thr	Pro	Cys	Ser		Asp	ser	Thr		
143			370		~ .			375					380				110	_
	tct																119	9
147	Ser	385	Cys	vai	GIII	GIĀ	390	Cys	val	ьуѕ	ніа	395	Cys	ASP	Arg	TTE		
	ata		tác	222	220	220		ast.	222	+ a+	aat		taa	aaa	aa2	22+	124	,
	Ile				_	_		-		-		_	_				124	,
	400	пор	DCI	LLY 5	цу	405	1110	пор	цуз	Cys	410	Val	Cys	OLY	GLY	415		
	gga	tet	act	tat	aaa		ata	tca	gga	tca		act	agt	gca	aaa		129	5
	Gly																10)	•
155	2			-1 -	420	-1-			1	425			~		430			
157	gga	tat	cat	gat	atc	atc	aca	att	cca	act	qqa	qcc	acc	aac	atc	gaa	134	3
	Gly																	
159	_			435					440		-			445				
161	gtg	aaa	cag	cgg	aac	cag	agg	gga	tcc	agg	aac	aat	ggc	agc	ttt	ctt	139	1
162	Val	Lys	Gln	Arg	Asn	Gln	Arg	Gly	Ser	Arg	Asn	Asn	Gly	Ser	Phe	Leu		
163			450		÷			455					460					
165	gcc	atc	aaa	gct.	.gct	gat	ggc	aca	tat	att	ctt	aat	ggt	gac	tac	act	143	9.
	Ala		Lys	Ala	Ala	Asp	_	Thr	Tyr	Ile	Leu	Asn	Gly	Asp	Tyr	Thr	•	•
167		465					470					475						
	ttg						-		_				-	_	-		148	7
	Leu	Ser	Thr	Leu	GLu		Asp	Ile	Met	Tyr	_	Gly	Val	Val	Leu	-		
	480					485					490					495	450	_
	tac																153	5
17.4	Tyr	ser	GTA	ser	500	Ата	Ата	Leu	Glu	Arg 505	ше	Arg	Ser	Pne		Pro		
	at a		~~~	000		200	2+0	~~~	~++		t	~+~	~~~	t	510	a++	150	2
	ctc Leu																158	3
179	Бец	Дуз	Olu	515	Leu	1111	116	9711	520	Leu	1111	Val	СТА	525	нта	Бец		
	cga	cct	aaa		aaa	tac	acc	tac		αta	ааσ	ааπ	аап		паа	tet	163	1
	Arg																105.	_
183	5		530			-1-		535	1 110				540	2,5	014	501		
	ttc	aat		atc	cċc	act	ttt		qca	taa	atc	att		σασ	taa	aac	167	9
	Phe																	
187		545					550					555			*	4		
189	gaa	tgt	tct	aag	acc.	.tgt	ggg	aag	ggt	tac	aaa	aaa	aga	agc	ttg	aag	172	7
	Glu-																	
191	560					565			•		570					575		
	tgt																177	5 3
194	Cys	Leu-	Ser	His	Asp	Gly	Gly	Val	Leu	Ser	His	Glu	Ser	Cys	Asp	Pro		
195					580					585					590			
197	tta	aag	aaa	cct	aaa	cat	ttc	ata	gac	ttt	tgc	aca	atg	gca	gaa	tgc '	182	3

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198 Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys Thr Met Ala Glu Cys	
199 595 600 605	2056
201 agt taagtggttt aagtggtgtt agctttgagg gcaaggcaaa gtgaggaagg	1876
202 Ser	
204 gctggtgcag ggaaagcaag aaggctggag ggatccagcg tatcttgcca gtaaccag	
205 aggtgtatca gtaaggtggg attatggggg tagatagaaa aggagttgaa tcatcaga	
206 aaactgccag ttgcaaattt gataggatag ttagtgagga ttattaacct ctgagcag	-
207 atatagcata ataaagcccc gggcattatt attattattt cttttgttac atctattac	
208 agtttagaaa aaacaaagca attgtcaaaa aaagttagaa ctattacaac ccctgttt	
209 tggtacttat caaatactta gtatcatggg ggttgggaaa tgaaaagtag gagaaaag	_
210 agattttact aagacctgtt ttactttacc tcactaacaa tggggggaga aaggagtad	
211 aataggatet ttgaceagea etgtttatgg etgetgtggt tteagagaat gtttataea	
212 tatttctacc gagaattaaa acttcagatt gttcaacatg agagaaaggc tcagcaac	-
213 gaaataacgc aaatggette etettteett ttttggacca teteagtett tatttgtg	
214 attcattttg aggaaaaac aactccatgt atttattcaa gtgcattaaa gtctacaa	tg 2536
215 gaaaaaaagc agtgaagcat tacatgctgg taaaagctag aggagacaca atgagctta	ag 2596
216 tacetecaae tteetttett teetaceatg taaeeetget tteggaatat ggatgtaaa	ag 2656
217 aagtaacttg tgtctcatga aaatcagtac aatcacacaa ggaggatgaa acgccggaa	ac 2716
218 aaaaatgagg tgtgtagaac agggtcccac aggtttgggg acattgagat cacttgtc	tt 2776
219 gtggtgggga ggctgctgag gggtagcagg tccatctcca gcagctggtc caacagtc	gt 2836
220 atcctggtga atgtctgttc agctcttctg tgagaatatg attttttcca tatgtata	ta 2896
221 gtaaaatatg ttactataaa ttacatgtac tttataagta ttggtttggg tgttcctto	cc 2956
222 aagaaggact atagttagta ataaatgcct ataataacat atttatttt atacattta	at 3016
223 ttctaatgaa aaaaactttt aaattatatc gcttttgtgg aagtgcatat aaaataga	gt 3076
224 atttatacaa tatatgttac tagaaataaa agaacacttt tggaaaaaaa aaaaaaaaa	
225 agggeggeeg e	3147
227 <210> SEQ ID NO: 2	
228 <211> LENGTH: 608	
229 <212> TYPE: PRT	
230 <213> ORGANISM: Homo sapiens	
232 <400> SEQUENCE: 2	
233 Thr Arg Pro Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val	
234 1 5 10 15	
235 Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys	
236 20 25 30	
237 Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr Ala	
238 35 40 45	
239 Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr	
240 50 55 60	
241 Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys	
242 65 70 75 80	
243 Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His	
244 85 90 95	
245 Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys	
246 100 105 110 110 110 110 110 110 110 110	
247 Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met	
248 115 120 125	
249 Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala Tyr	
250 130 135 140	

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	Met 145	Ile	Thr	Ser	Phe	Leu 150	Asp	Asn	Gly	His	Gly 155	Glu	Cys	Leu	Met	Asp 160	
254	-				165					Gly 170	_			_	175		
255 256	Tyr	Asp	Ala	Asn 180	Arg	Gln	Cys	Gln	Phe 185	Thr	Phe	Gly	Glu	Asp 190	Ser	Lys	
258			195					200		Ser			205				
260		210					215			Thr		220					
262	225				_	230		_		Trp	235			_	_	240	
264					245					Asp 250					255		
266		_		260	_		_	_	265	Cys		_		270	_	_	
268	_		275	-			-	280	_	Asp			285		-		
270		290	_	_	_		295	_	_	Val	_	300	_		_		
272	305		_	_		310			-	Lys	315		_			320	
274	_				325				_	Ala 330			_		335		
276			A**	340			_		345	Gly				350	_	_	
278	_	_	355					360	_	Cys	_	-	365				
280	•	370	_			_	375			Ala		380	_				
282	385					390			•	Gly	395					400	
284	-		-	-	405		-	_	-	410 Val		-	-	-	415	-	
286			-	420	-			_	425	Gly				430		-	
288	-		435					440		Asn			445				
290	-	450	_			_	455		_	Leu		460					
292	465					470				Lys	475					480	
294					485	_			_	490 Ile	_				495	_	
296		_		500					505	Thr	_			510			
298	٠		515					520		Lys	•		525				
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/803,589

DATE: 03/30/2001

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Input Set : A:\07334-325001.TXT

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L:14 M:270 C: Surrent Application Number differs, Replaced Current Application No L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Lingui contra